

**Dr. Duke's Phytochemical and Ethnobotanical Database**

**Chemicals Found in *Ceratonia siliqua***

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Fruit	--	--		Wealth of India.
38	(-)-EPICATECHIN	Fruit	--	--		Wealth of India.
2	(-)-EPICATECHIN-GALLATE	Fruit	--	--		Wealth of India.
3	ALANINE	Seed	19270	19270	1.937406602299025	
14	ARGININE	Seed	55460	55460	1.305015423442096	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	ASPARTIC-ACID	Seed	42300	42300	1.7498565420565382	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
20	BENZOIC-ACID	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
47	BETA-SITOSTEROL	Seed	--	--		Wealth of India.
6	BUTYRIC-ACID	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
2	CAMPESTEROL	Seed	--	--		Wealth of India.
1	CELLULOSE	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	CELLULOSE	Seed	32500	32500	-0.8412892542802549	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	CONCANAVALIN-A	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	DELTA-5-AVENASTEROL	Seed	--	--		Wealth of India.

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61	FERULIC-ACID	Fruit	--	--		Wealth of India.
15	FIBER	Seed	--	68300	-0.5249281380367844	Wealth of India.
13	FORMIC-ACID	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	FRUCTOSE	Fruit	50700	118300	0.9887597494010026	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
62	GALLIC-ACID	Fruit	--	--		
7	GLUCOSE	Fruit	56700	132300	0.509062632135154	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	GLUTAMIC-ACID	Seed	131600	131600	3.7924030897032144	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
12	GLYCINE	Seed	24910	24910	2.0180564011445847	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
7	HISTIDINE	Seed	11750	11750	1.4956374478753787	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
1	HYDROXYPROLINE	Seed	470	470		Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	ISOBUTYRIC-ACID	Fruit	6000	13000		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	ISOLEUCINE	Seed	16450	16450	0.7603066945337698	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
8	L-ALANINE	Fruit	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

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2	LEUCINE	Seed	30550	30550	1.2891936678205187	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	LEUCODELPHINIDIN	Fruit	--	--		
13	LIGNIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	LIGNOCERIC-ACID	Seed	20	180	-0.605928834402467	Wealth of India.
27	LINOLEIC-ACID	Seed	1185	10655	-0.8265405178259713	Wealth of India.
4	LYSINE	Seed	26320	26320	1.926362960526928	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
2	MALTOSE	Fruit	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
15	METHIONINE	Seed	4700	4700	0.09946646224544615	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	MUCILAGE	Fruit	20000	30000	1.4102204808154215	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
3	MUCILAGE	Seed	400000	400000	1.2761704382802022	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
34	MYRICETIN	Fruit	--	--		Wealth of India.
1	NEOSCHAFTOSIDE	Fruit	--	--		
18	OLEIC-ACID	Seed	410	3670	-0.9489306565927755	Wealth of India.
13	PALMITIC-ACID	Seed	155	1405	-0.6706113407297248	Wealth of India.
24	PECTIN	Fruit	--	--		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

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7	PHENYLALANINE	Seed	15040	15040	0.41791077800810894	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
8	PHLOROGLUCINOL	Fruit	--	--		Wealth of India.
5	PINITOL	Fruit	50000	75000		Abstract (See species file)
23	PYROGALLOL	Fruit	--	--		
176	QUERCETIN	Fruit	--	--		Wealth of India.
1	RAFFINOSE	Leaf	--	--		Wealth of India.
7	SALICYLATES	Seed	--	--	-0.3401776874861938	
1	SCHAFTOSIDE	Fruit	--	--		
1	SERINE	Seed	23500	23500	2.4772155502783995	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
5	STARCH	Fruit	350000	350000	0.0779800338608496	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	STEARIC-ACID	Seed	200	1820	-0.525902220446434	Wealth of India.
12	STIGMASTEROL	Seed	--	--		Wealth of India.
14	SUCROSE	Fruit	75000	175000	0.4939788238189215	
35	TANNIN	Bark	12000	500000	3.1396861512455287	
35	TANNIN	Fruit	15000	15000	-0.7669659110914757	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	THREONINE	Seed	16920	16920	1.9646079005719668	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

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93	TOCOPHEROL	Seed	--	--		
8	TYROSINE	Seed	16450	16450	2.0174163981767372	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	VALINE	Seed	20680	20680	1.0676065395175858	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
3	XYLOSE	Fruit	6900	16100		List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.